

**ADVANCE PROGRAM &
REGISTRATION FORM**



*THE LOS ANGELES CHAPTER OF THE
IEEE EMC SOCIETY
PROUDLY PRESENTS*

**EMC Fest 2005:
AEROSPACE EMC
*A Colloquium and Exhibition***

*A practical seminar designed to improve
your efficiency as a test engineer and product
designer, where you'll learn troubleshooting
tips and strategies from the experts in order
to improve your EMC engineering skills*

Monday, September 26, 2005

**The Crowne Plaza Hotel
300 North Harbor Drive
Redondo Beach, California 90277**

**Brought to you by the
Los Angeles Electromagnetic Compatibility (EMC)
Chapter of the
Institute of Electrical and Electronic Engineers**

IEEE LOS ANGELES EMC CHAPTER
c/o Fischer Custom Communications, Inc.
20603 Earl Street
Torrance, CA 90503
ATTN: EMC FEST 2005

**Program Outline
Monday, September 26, 2005**

7:30	REGISTRATION & CONTINENTAL BREAKFAST
8:30	Conducted Emissions (CE101/CE102) By Steve Jensen, Steve Jensen Consultants Topics to be addressed include filter design tips, troubleshooting and test tips.
9:30	EMP Tests (CS116 and RS105) By Bruce Harlacher, Fischer Custom Comm Topics to be addressed include test setup, design tips and troubleshooting.
	Impulse Excitation, BCI (CS115) By Bruce Harlacher, Fischer Custom Comm Topics to be addressed include test setup, design tips and troubleshooting.
10:30	BREAK
11:00	Radiated Susceptibility (RS103) By Zhong Chen, ETS-Lindgren Topics to be addressed include an introduction to E-field probes, their limitations, proper usage and key assumptions.
12:00	LUNCH
1:30	Effective EMC Test Planning & Performance By Ray Adams, Fischer Custom Comm Common mistakes and how to avoid them thru proper test planning and test engineering.
	Conducted Susceptibility (CS101) By Ray Adams, Fischer Custom Comm Use of conducted susceptibility test data and spice modeling to troubleshoot/resolve problems, proper test setup and design
2:30	BREAK
3:00	Radiated Emissions (RE101, RE102) By Ken Javor, EMC Compliance Topics include test rationale, limit tailoring, proper conduct of the test and troubleshooting.
	Bulk Current Injection (CS114) By Ken Javor, EMC Compliance Topics include test rationale, test setup, and equivalence to radiated susceptibility
4:30- 5:30	EXHIBITS RECEPTION & RAFFLE!

**NOTE: Table-top displays (exhibits) will be open during
registration, lunch, all breaks, and the reception. Access to the
table-top displays is available during the technical sessions, but
the displays may not be manned during those times. You must
be present to win at the raffle.**

About the Speakers

Ray Adams is a Senior Project Engineer with Fischer Custom Communications, Inc. Prior joining Fischer in 2004 he was with Boeing Satellite Systems as an EMC Engineer. He has held similar positions with TRW and General Dynamics. Prior to his employment with BSS, he was Manager of the TRW (Northrop Grumman) EMI Test Facility. Before joining TRW in 1987, he was a Senior Electronics Engineer with General Dynamics in Pomona, California working in High Power Microwaves and Missile Systems Test where he was first introduced to MIL-STD-461/462. Mr. Adams is a member of the IEEE EMC Society and has been the Los Angeles EMC Society Chapter Chair since 1992. He received his BSEE from The College of New Jersey in 1981.

Zhong Chen graduated from Ohio State University at Columbus with a MSEE in Electromagnetics. He joined ETS-Lindgren in 1996 and is currently a Principal Design Engineer. Mr. Chen is a member of IEEE AP, MTT and EMC Societies.

Bruce Harlacher is a Program Manager for Fischer Custom Communications, Inc.'s (FCC) design center in San Diego, CA. His primary duties include supporting FCC activities related to custom EMP testing for the US Defense Threat Reduction Agency (DTRA), and EMP test related activities for US Government Contractors. His other duties include commercial product development support for FCC. Mr. Harlacher has participated in dozens of field tests involving either frequency domain (CW) and/or time domain (pulse) testing. In addition, he has planned, executed, and documented over 100 laboratory EMP tests on military and commercial equipment.

Ken Javor has worked in the field of EMC since 1980. His aerospace EMC experience includes work on the B-52, V-22 Osprey, Air Force One, Space Shuttle and Space Station and Army helicopters. He is a member of the SAE AE-4 and EIA G-46 EMC committees specializing in the development of equipment-level EMI specifications and test methods, and in the design of test equipment and facilities. He founded EMC Compliance in 1992, through which he provides consulting and EMC support services. Through EMCC, he has designed EMI test equipment and provided customer support for several companies in the EMI test equipment industry. In 1993 he published "Introduction to the Control of Electromagnetic Interference, A Guide to Understanding, Applying, and Tailoring EMI Limits and Test Methods."

Steve Jensen is President and Principal Consultant of STEVE JENSEN CONSULTANTS INC. of Redlands, California. Steve has been an independent EMC Consultant for 24 years specializing in EMC matters relating to power electronics. Steve is a past chairman of the IEEE S-27 EMC society, Los Angeles Chapter. Steve is a senior member of the IEEE and is a NARTE Certified EMC engineer. Steve is also a course instructor in EMC for CKC Laboratories Inc., specializing in the development of the "Core Course" materials. Steve has also developed the conducted emissions simulation program "FILSIM" which is available as a part of the EMCAD© software package also from CKC Laboratories. Steve is a graduate of UCLA with a BSEE degree and has over 40 years experience in the filter and Electromagnetic Compatibility Business. (He started when he was 2 years oldJ).

FEE SCHEDULE

IEEE Members, Postmark by August 10:	\$125
IEEE Members, Postmark Aug 11 - Sept 12:	\$175
IEEE Members, After Sept 13 or at Door*:	\$225
Non Member Additional Charge:	\$50
Full-time Students with copy of valid Student I.D., Postmark by Sept. 12:	\$75
NOTE: Unemployed/retired attendees: Take a 50% discount off the IEEE Member fees above.	
Tutorial Record, with advance registration:	Free
* Please do not mail after September 12.	

The Los Angeles EMC Chapter

Chairman: Ray Adams
Fischer Custom Communications
Technical Program and Registration
310-303-3300, radams@fischercc.com

Publicity: John O'Brien
WEMS Electronics
310-644-0251, jobrin@wems.com

Tabletop Exhibits:
Janet O'Neil, ETS-Lindgren
425-868-2558, j.n.oneil@ieeee.org

Seminar Location

The Crowne Plaza Hotel
300 North Harbor Drive
Redondo Beach, California 90277
310-318-8888

The hotel is located some 30 minutes south of the Los Angeles International Airport. Self-parking at the hotel is \$2.00 per hour, or \$13.00 per day/valet is \$16.00 per day. A small block of guest rooms has been reserved at the hotel for the reduced rate of \$159/night, plus tax, for single or double occupancy. Please reserve by August 27 to receive this rate, and mention "EMC Society" to get our group rate.

Certificates of Completion from this seminar will be provided.

Registration Information

Please print clearly

Name: _____
Title: _____
Organization: _____
Street Address: _____

Mail Stop: _____ City: _____
State: _____ Zip: _____
Daytime Phone: _____
E-mail address: _____
IEEE member? Yes _____ No _____

Registration Total per Fee Schedule

Check Enclosed in Amount of: \$ _____

(Checks payable to: IEEE EMC Los Angeles Chapter)

or

Credit Card Payment – Please Provide:

Name on Card: _____
Credit Card #: _____
Expiration Date: _____
Amount Charged: \$ _____
Signature: _____

Mail to: EMC Fest 2005
c/o Fischer Custom Communications
20603 Earl Street
Torrance, CA 90503

Or Fax To: 310-371-6268, Attn: EMC Fest 2005
Credit Card Registration only

The registration fee includes one copy of the colloquium record for pick up on site, continental breakfast, refreshments, lunch, and reception. The organizing committee reserves the right to substitute speakers, restrict size, or to cancel the colloquium. In the event the colloquium is canceled by the organizing committee, registration fees only will be fully refunded. Individuals canceling their registration prior to August 26 will receive a full refund. No refunds will be made to individuals who cancel their registration after August 26. Substitutions are allowed. Attendance is limited. Registration will be confirmed on a first come, first served basis.